

Gunnar Schotta

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

6,245
citations

147566

31
h-index

155451

55
g-index

61
all docs

61
docs citations

61
times ranked

7810
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss of acetylation at Lys16 and trimethylation at Lys20 of histone H4 is a common hallmark of human cancer. <i>Nature Genetics</i> , 2005, 37, 391-400.	9.4	1,710
2	A silencing pathway to induce H3-K9 and H4-K20 trimethylation at constitutive heterochromatin. <i>Genes and Development</i> , 2004, 18, 1251-1262.	2.7	946
3	A chromatin-wide transition to H4K20 monomethylation impairs genome integrity and programmed DNA rearrangements in the mouse. <i>Genes and Development</i> , 2008, 22, 2048-2061.	2.7	378
4	Histone H4 Lysine 20 methylation: key player in epigenetic regulation of genomic integrity. <i>Nucleic Acids Research</i> , 2013, 41, 2797-2806.	6.5	313
5	Su(var) genes regulate the balance between euchromatin and heterochromatin in <i>Drosophila</i> . <i>Genes and Development</i> , 2004, 18, 2973-2983.	2.7	238
6	Suv4-20h deficiency results in telomere elongation and derepression of telomere recombination. <i>Journal of Cell Biology</i> , 2007, 178, 925-936.	2.3	237
7	Active and Repressive Chromatin Are Interspersed without Spreading in an Imprinted Gene Cluster in the Mammalian Genome. <i>Molecular Cell</i> , 2007, 27, 353-366.	4.5	138
8	Quiescence-Induced lncRNAs Trigger H4K20 Trimethylation and Transcriptional Silencing. <i>Molecular Cell</i> , 2014, 54, 675-682.	4.5	136
9	Atrx promotes heterochromatin formation at retrotransposons. <i>EMBO Reports</i> , 2015, 16, 836-850.	2.0	126
10	Promoter G-quadruplexes and transcription factors cooperate to shape the cell type-specific transcriptome. <i>Nature Communications</i> , 2021, 12, 3885.	5.8	116
11	CENP-C facilitates the recruitment of M18BP1 to centromeric chromatin. <i>Nucleus</i> , 2012, 3, 101-110.	0.6	111
12	Suv4-20h2 mediates chromatin compaction and is important for cohesin recruitment to heterochromatin. <i>Genes and Development</i> , 2013, 27, 859-872.	2.7	105
13	Silencing of endogenous retroviruses by heterochromatin. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 2055-2065.	2.4	100
14	The SUV4-20 inhibitor A-196 verifies a role for epigenetics in genomic integrity. <i>Nature Chemical Biology</i> , 2017, 13, 317-324.	3.9	98
15	Blimp1 Prevents Methylation of Foxp3 and Loss of Regulatory T Cell Identity at Sites of Inflammation. <i>Cell Reports</i> , 2019, 26, 1854-1868.e5.	2.9	91
16	Specificity, propagation, and memory of pericentric heterochromatin. <i>Molecular Systems Biology</i> , 2014, 10, 746.	3.2	80
17	Concerted Activities of Distinct H4K20 Methyltransferases at DNA Double-Strand Breaks Regulate 53BP1 Nucleation and NHEJ-Directed Repair. <i>Cell Reports</i> , 2014, 8, 430-438.	2.9	77
18	PRSET7 and SUV4-20H regulate H4 lysine-20 methylation at imprinting control regions in the mouse. <i>EMBO Reports</i> , 2008, 9, 998-1005.	2.0	72

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19	Genome-wide analysis of PDX1 target genes in human pancreatic progenitors. <i>Molecular Metabolism</i> , 2018, 9, 57-68.	3.0	67
20	Mapping H4K20me3 onto the chromatin landscape of senescent cells indicates a function in control of cell senescence and tumor suppression through preservation of genetic and epigenetic stability. <i>Genome Biology</i> , 2016, 17, 158.	3.8	65
21	Pre-marked chromatin and transcription factor co-binding shape the pioneering activity of Foxa2. <i>Nucleic Acids Research</i> , 2019, 47, 9069-9086.	6.5	65
22	The Kidney Contains Ontogenetically Distinct Dendritic Cell and Macrophage Subtypes throughout Development That Differ in Their Inflammatory Properties. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 257-278.	3.0	62
23	Histone H4K20 triâ€methylation at lateâ€firing origins ensures timely heterochromatin replication. <i>EMBO Journal</i> , 2017, 36, 2726-2741.	3.5	61
24	Loss of Uhrf1 in neural stem cells leads to activation of retroviral elements and delayed neurodegeneration. <i>Genes and Development</i> , 2016, 30, 2199-2212.	2.7	58
25	Point mutations in the PDX1 transactivation domain impair human Î²-cell development and function. <i>Molecular Metabolism</i> , 2019, 24, 80-97.	3.0	58
26	HIV-1 infection activates endogenous retroviral promoters regulating antiviral gene expression. <i>Nucleic Acids Research</i> , 2020, 48, 10890-10908.	6.5	54
27	Epigenetics of eu- and heterochromatin in inverted and conventional nuclei from mouse retina. <i>Chromosome Research</i> , 2013, 21, 535-554.	1.0	53
28	H3K56me3 Is a Novel, Conserved Heterochromatic Mark That Largely but Not Completely Overlaps with H3K9me3 in Both Regulation and Localization. <i>PLoS ONE</i> , 2013, 8, e51765.	1.1	53
29	Impact of Histone H4 Lysine 20 Methylation on 53BP1 Responses to Chromosomal Double Strand Breaks. <i>PLoS ONE</i> , 2012, 7, e49211.	1.1	50
30	Epithelial cell plasticity drives endoderm formation during gastrulation. <i>Nature Cell Biology</i> , 2021, 23, 692-703.	4.6	41
31	SETDB1 is required for intestinal epithelial differentiation and the prevention of intestinal inflammation. <i>Gut</i> , 2021, 70, 485-498.	6.1	39
32	The Aryl Hydrocarbon Receptor Pathway Defines the Time Frame for Restorative Neurogenesis. <i>Cell Reports</i> , 2018, 25, 3241-3251.e5.	2.9	34
33	Morc3 silences endogenous retroviruses by enabling Daxx-mediated histone H3.3 incorporation. <i>Nature Communications</i> , 2021, 12, 5996.	5.8	34
34	BZLF1 interacts with chromatin remodelers promoting escape from latent infections with EBV. <i>Life Science Alliance</i> , 2019, 2, e201800108.	1.3	32
35	Heterochromatin dysregulation in human diseases. <i>Journal of Applied Physiology</i> , 2010, 109, 232-242.	1.2	31
36	Suv4-20h Histone Methyltransferases Promote Neuroectodermal Differentiation by Silencing the Pluripotency-Associated Oct-25 Gene. <i>PLoS Genetics</i> , 2013, 9, e1003188.	1.5	30

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37	A Damage-Independent Role for 53BP1 that Impacts Break Order and Igh Architecture during Class Switch Recombination. <i>Cell Reports</i> , 2016, 16, 48-55.	2.9	29
38	FSHD muscular dystrophy region gene 1 binds Suv4-20h1 histone methyltransferase and impairs myogenesis. <i>Journal of Molecular Cell Biology</i> , 2013, 5, 294-307.	1.5	26
39	Suv4-20h Abrogation Enhances Telomere Elongation during Reprogramming and Confers a Higher Tumorigenic Potential to iPS Cells. <i>PLoS ONE</i> , 2011, 6, e25680.	1.1	26
40	Environmental signals rather than layered ontogeny imprint the function of type 2 conventional dendritic cells in young and adult mice. <i>Nature Communications</i> , 2021, 12, 464.	5.8	25
41	The <i>MDM2</i> inducible promoter folds into four-tetrad antiparallel G-quadruplexes targetable to fight malignant liposarcoma. <i>Nucleic Acids Research</i> , 2021, 49, 847-863.	6.5	23
42	Retrotransposon derepression leads to activation of the unfolded protein response and apoptosis in pro-B cells. <i>Development (Cambridge)</i> , 2016, 143, 1788-99.	1.2	22
43	HDAC2 Facilitates Pancreatic Cancer Metastasis. <i>Cancer Research</i> , 2022, 82, 695-707.	0.4	19
44	Cross-species analyses unravel the complexity of H3K27me3 and H4K20me3 in the context of neural stem progenitor cells. <i>Neuroepigenetics</i> , 2016, 6, 10-25.	2.8	18
45	DNA sequence-dependent formation of heterochromatin nanodomains. <i>Nature Communications</i> , 2022, 13, 1861.	5.8	18
46	Production of Small Noncoding RNAs from the <i>flamenco</i> Locus Is Regulated by the <i>gypsy</i> Retrotransposon of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2016, 204, 631-644.	1.2	16
47	Epstein-Barr virus inactivates the transcriptome and disrupts the chromatin architecture of its host cell in the first phase of lytic reactivation. <i>Nucleic Acids Research</i> , 2021, 49, 3217-3241.	6.5	16
48	Dynamic changes of the epigenetic landscape during cellular differentiation. <i>Epigenomics</i> , 2013, 5, 701-713.	1.0	13
49	The compact view on heterochromatin. <i>Cell Cycle</i> , 2013, 12, 2925-2926.	1.3	11
50	H4K20 monomethylation faces the WNT. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3097-3098.	3.3	5
51	Î-globin expression is regulated by SUV4-20h1. <i>Haematologica</i> , 2016, 101, e168-e172.	1.7	3
52	Suv4-20h2 protects against influenza virus infection by suppression of chromatin loop formation. <i>IScience</i> , 2021, 24, 102660.	1.9	3
53	Evolving Exhaustion of T Cells during the Course of the Disease in AML Can be Abrogated By CD33 BiTE A® Construct Mediated Cytotoxicity. <i>Blood</i> , 2021, 138, 1172-1172.	0.6	2
54	Comment on "Biomolecular dynamics and binding studies in the living cell" by Stephan Diekmann and Christian Hoischen. <i>Physics of Life Reviews</i> , 2014, 11, 31-32.	1.5	1

#	ARTICLE	IF	CITATIONS
55	Specific effects of somatic GATA2 zinc finger mutations on erythroid differentiation. <i>Experimental Hematology</i> , 2022, 108, 26-35.	0.2	1
56	Abstract 2350: Foxj1 is a new master regulator of activated PI3K pathway pancreatic cancer. <i>Cancer Research</i> , 2022, 82, 2350-2350.	0.4	0